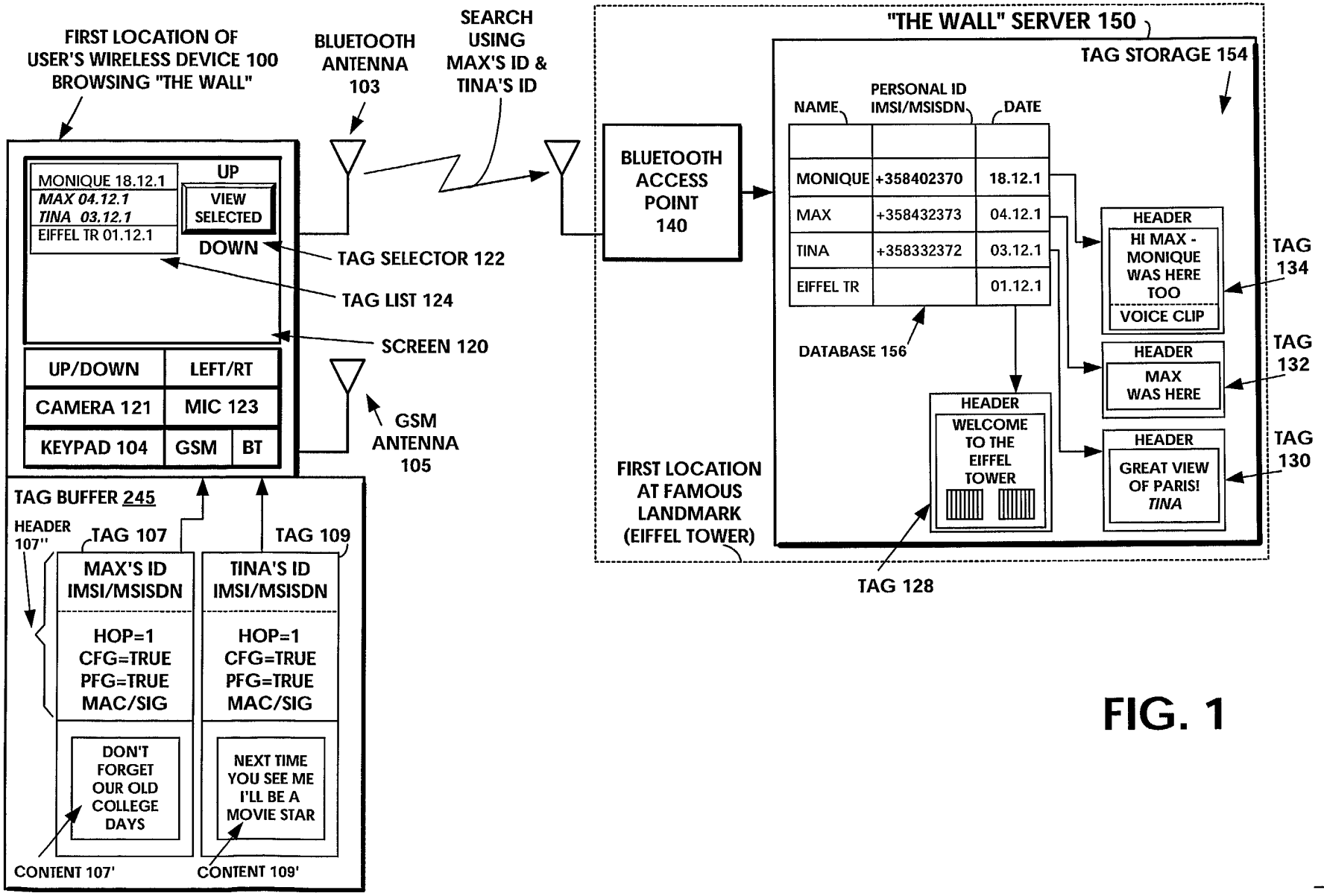

FIRST LOCATION OF USER'S WIRELESS DEVICE 100 BROWSING "THE WALL"
BLUETOOTH ANTENNA 103
SEARCH USING MAX'S ID & TINA'S ID
"THE WALL" SERVER 150
TAG STORAGE 154
BLUETOOTH ACCESS POINT 140
NAME
PERSONAL ID IMSI/MSISDN
DATE
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
DATABASE 156
MONIQUE 18.12.1
MAX 04.12.1
TINA 03.12.1
EIFFEL TR 01.12.1
UP
VIEW SELECTED
DOWN
TAG SELECTOR 122
TAG LIST 124
SCREEN 120
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
GSM ANTENNA 105
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
FIRST LOCATION AT FAMOUS LANDMARK (EIFFEL TOWER)
TAG 128
TAG BUFFER 245
HEADER 107''
TAG 107
TAG 109
MAX'S ID IMSI/MSISDN
TINA'S ID IMSI/MSISDN
HOP=1 CFG=TRUE PFG=TRUE MAC/SIG
HOP=1 CFG=TRUE PFG=TRUE MAC/SIG
DON'T FORGET OUR OLD COLLEGE DAYS
NEXT TIME YOU SEE ME I'LL BE A MOVIE STAR
CONTENT 107'
CONTENT 109'

FIG. 1

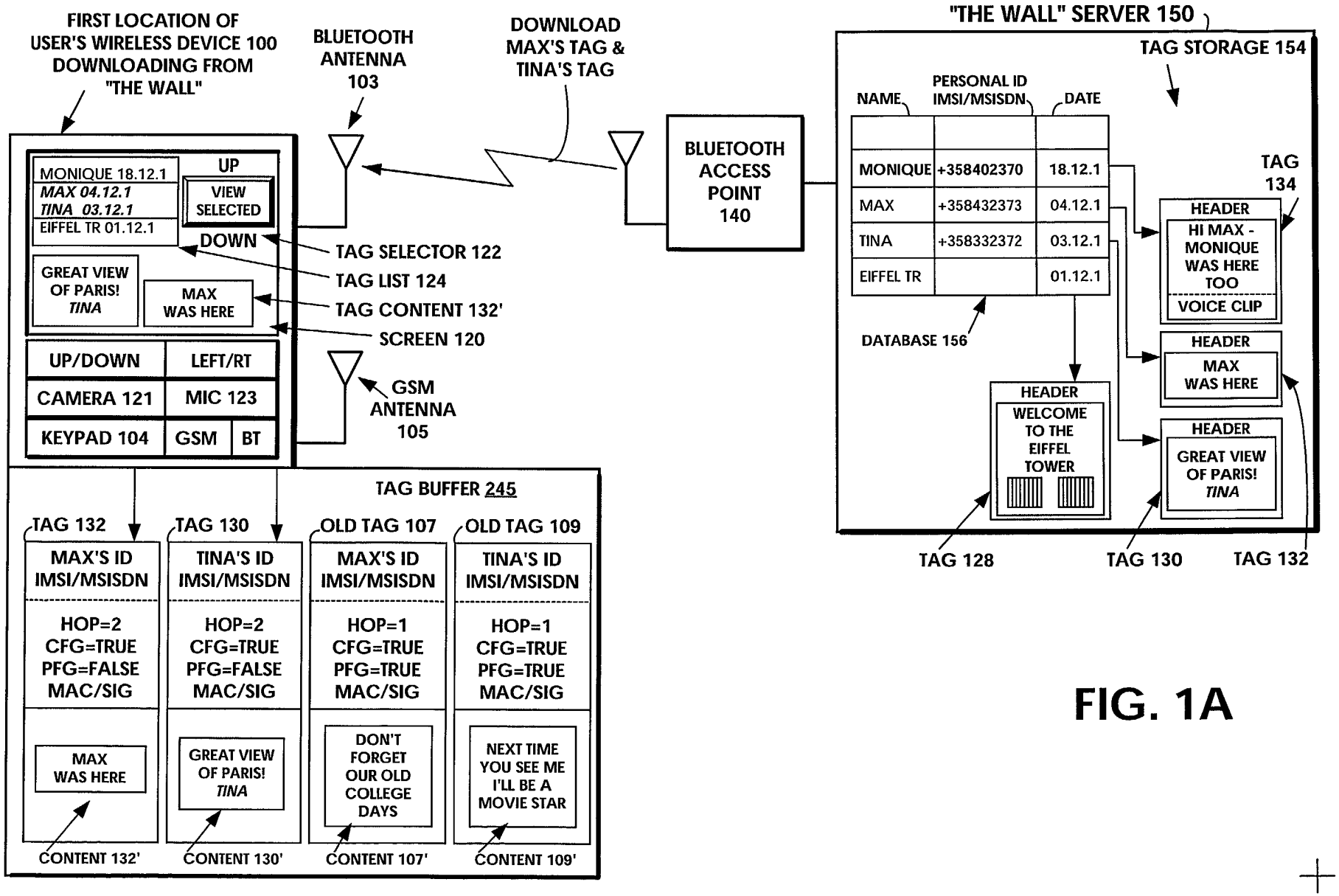

FIRST LOCATION OF USER'S WIRELESS DEVICE 100 DOWNLOADING FROM "THE WALL"
BLUETOOTH ANTENNA 103
DOWNLOAD MAX'S TAG & TINA'S TAG
BLUETOOTH ACCESS POINT 140
"THE WALL" SERVER 150
TAG STORAGE 154
NAME
PERSONAL ID IMSI/MSISDN
DATE
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
DATABASE 156
TAG 134
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
HEADER
MAX WAS HERE
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
MONIQUE 18.12.1
MAX 04.12.1
TINA 03.12.1
EIFFEL TR 01.12.1
UP
VIEW SELECTED
DOWN
GREAT VIEW OF PARIS! TINA
MAX WAS HERE
TAG SELECTOR 122
TAG LIST 124
TAG CONTENT 132'
SCREEN 120
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
GSM ANTENNA 105
TAG BUFFER 245
TAG 132
TAG 130
OLD TAG 107
OLD TAG 109
MAX'S ID IMSI/MSISDN
TINA'S ID IMSI/MSISDN
MAX'S ID IMSI/MSISDN
TINA'S ID IMSI/MSISDN
HOP=2 CFG=TRUE PFG=FALSE MAC/SIG
HOP=2 CFG=TRUE PFG=FALSE MAC/SIG
HOP=1 CFG=TRUE PFG=TRUE MAC/SIG
HOP=1 CFG=TRUE PFG=TRUE MAC/SIG
MAX WAS HERE
GREAT VIEW OF PARIS! TINA
DON'T FORGET OUR OLD COLLEGE DAYS
NEXT TIME YOU SEE ME I'LL BE A MOVIE STAR
CONTENT 132'
CONTENT 130'
CONTENT 107'
CONTENT 109'
TAG 128
TAG 130
TAG 132

FIG. 1A

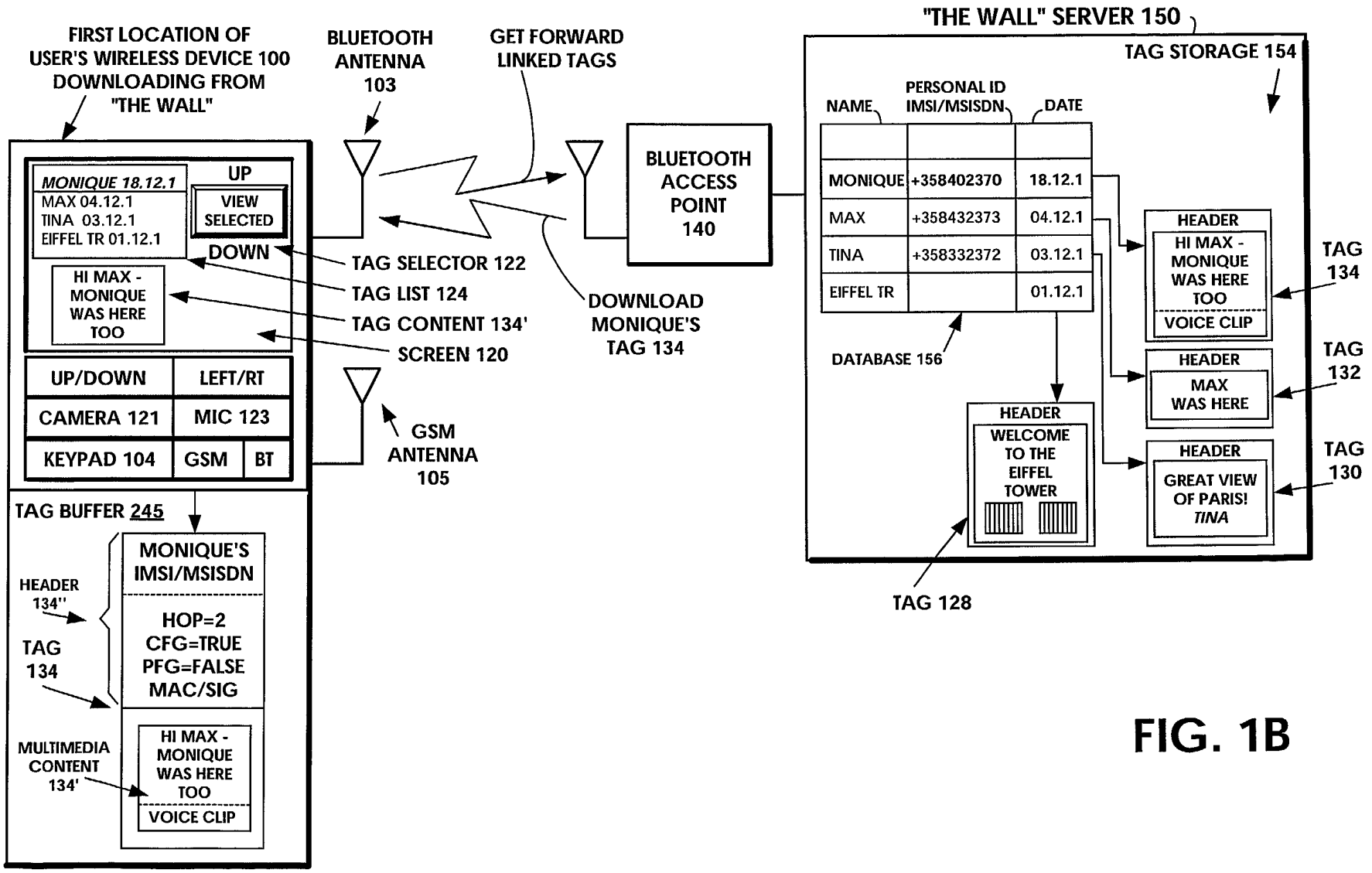

FIRST LOCATION OF USER'S WIRELESS DEVICE 100 DOWNLOADING FROM "THE WALL"
BLUETOOTH ANTENNA 103
GET FORWARD LINKED TAGS
"THE WALL" SERVER 150
TAG STORAGE 154
NAME
PERSONAL ID IMSI/MSISDN
DATE
MONIQUE 18.12.1
MAX 04.12.1
TINA 03.12.1
EIFFEL TR 01.12.1
UP
VIEW SELECTED
DOWN
HI MAX - MONIQUE WAS HERE TOO
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
BLUETOOTH ACCESS POINT 140
TAG SELECTOR 122
TAG LIST 124
TAG CONTENT 134'
SCREEN 120
DOWNLOAD MONIQUE'S TAG 134
GSM ANTENNA 105
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
DATABASE 156
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
TAG 128
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HEADER 134''
TAG 134
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
MULTIMEDIA CONTENT 134'
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP

FIG. 1B

FIG. 1C

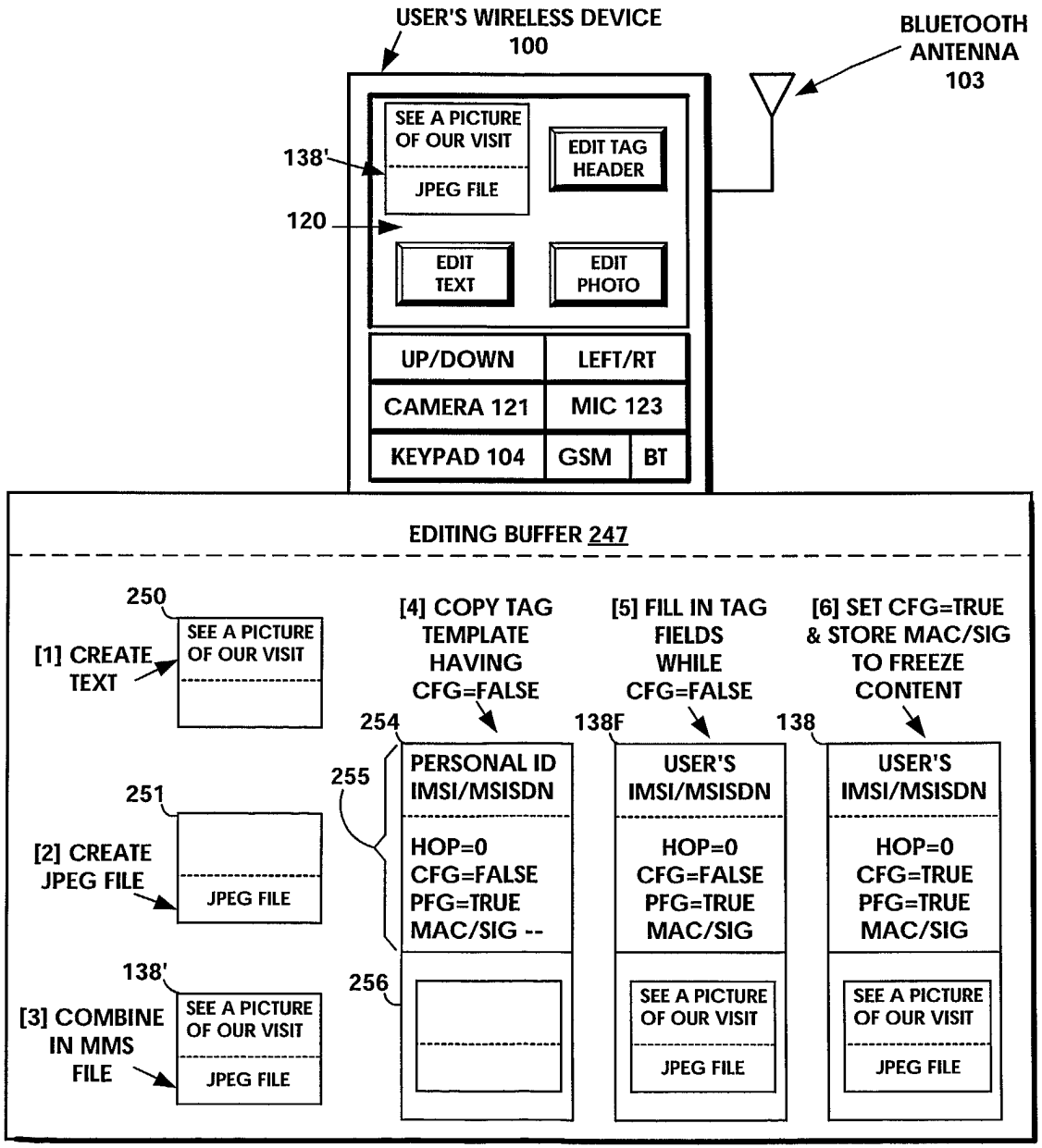

USER'S WIRELESS DEVICE
100
BLUETOOTH
ANTENNA
103
SEE A PICTURE OF OUR VISIT
JPEG FILE
138'
120
EDIT TAG HEADER
EDIT TEXT
EDIT PHOTO
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
EDITING BUFFER 247
250
[1] CREATE TEXT
SEE A PICTURE OF OUR VISIT
251
[2] CREATE JPEG FILE
JPEG FILE
138'
[3] COMBINE IN MMS FILE
SEE A PICTURE OF OUR VISIT
JPEG FILE
[4] COPY TAG TEMPLATE HAVING CFG=FALSE
[5] FILL IN TAG FIELDS WHILE CFG=FALSE
[6] SET CFG=TRUE & STORE MAC/SIG TO FREEZE CONTENT
254
138F
138
255
256
PERSONAL ID IMSI/MSISDN
HOP=0
CFG=FALSE
PFG=TRUE
MAC/SIG --
USER'S IMSI/MSISDN
HOP=0
CFG=FALSE
PFG=TRUE
MAC/SIG
USER'S IMSI/MSISDN
HOP=0
CFG=TRUE
PFG=TRUE
MAC/SIG
SEE A PICTURE OF OUR VISIT
JPEG FILE
SEE A PICTURE OF OUR VISIT
JPEG FILE

FIG. 1D

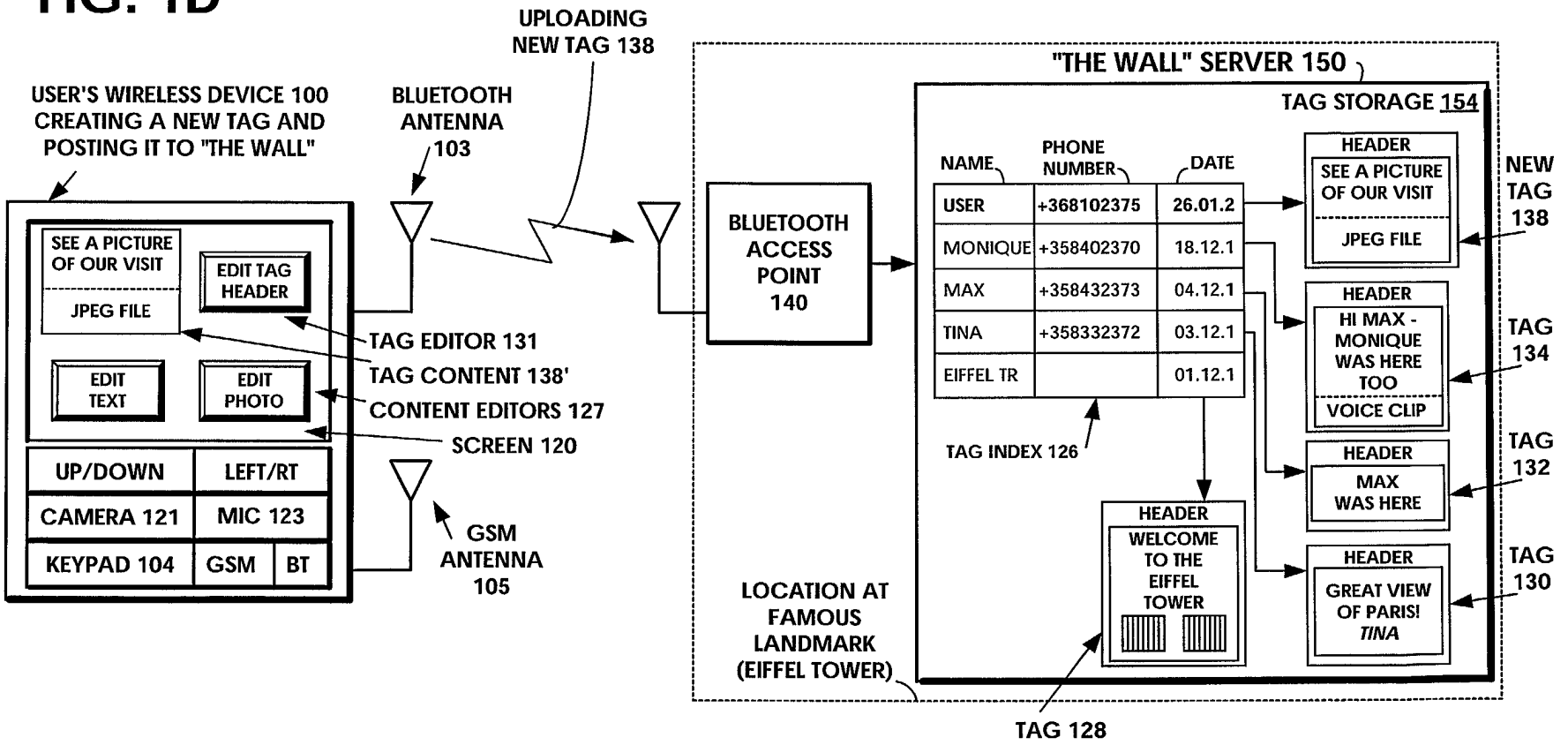

USER'S WIRELESS DEVICE 100 CREATING A NEW TAG AND POSTING IT TO "THE WALL"
BLUETOOTH ANTENNA 103
UPLOADING NEW TAG 138
"THE WALL" SERVER 150
TAG STORAGE 154
SEE A PICTURE OF OUR VISIT
JPEG FILE
EDIT TAG HEADER
EDIT TEXT
EDIT PHOTO
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
TAG EDITOR 131
TAG CONTENT 138'
CONTENT EDITORS 127
SCREEN 120
GSM ANTENNA 105
BLUETOOTH ACCESS POINT 140
NAME
PHONE NUMBER
DATE
USER +368102375 26.01.2
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
TAG INDEX 126
HEADER
SEE A PICTURE OF OUR VISIT
JPEG FILE
NEW TAG 138
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
LOCATION AT FAMOUS LANDMARK (EIFFEL TOWER)
TAG 128

FIG. 1E

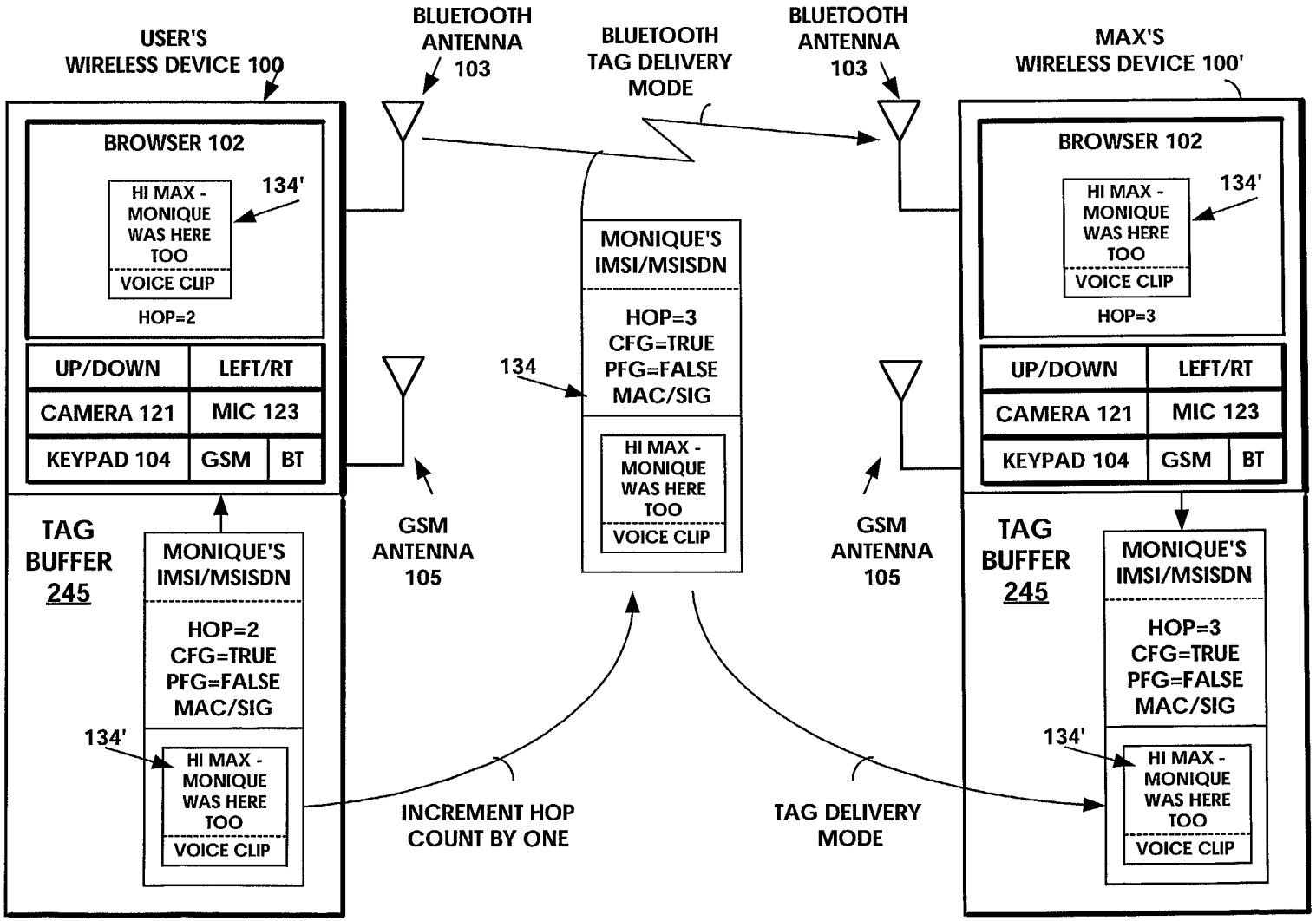

USER'S WIRELESS DEVICE 100
BLUETOOTH ANTENNA 103
BLUETOOTH TAG DELIVERY MODE
BLUETOOTH ANTENNA 103
MAX'S WIRELESS DEVICE 100'
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
HOP=2
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
GSM ANTENNA 105
MONIQUE'S IMSI/MSISDN
HOP=3
CFG=TRUE
PFG=FALSE
MAC/SIG
134
HOP=3
INCREMENT HOP COUNT BY ONE
TAG DELIVERY MODE

FIG. 1F

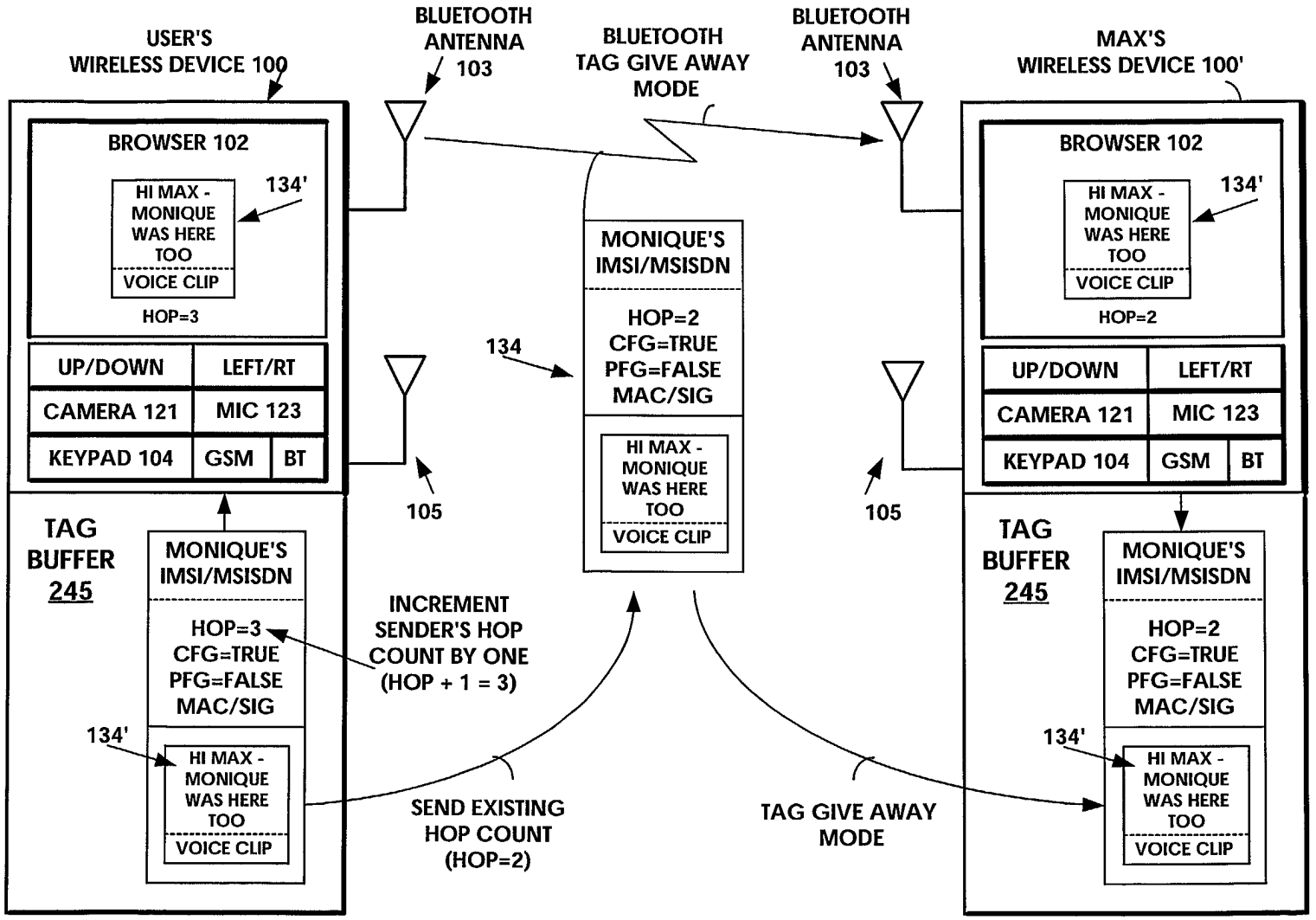

USER'S WIRELESS DEVICE 100
BLUETOOTH ANTENNA 103
BLUETOOTH TAG GIVE AWAY MODE
BLUETOOTH ANTENNA 103
MAX'S WIRELESS DEVICE 100'
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
HOP=3
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
105
134
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
HOP=2
TAG BUFFER 245
HOP=3
INCREMENT SENDER'S HOP COUNT BY ONE (HOP + 1 = 3)
SEND EXISTING HOP COUNT (HOP=2)
TAG GIVE AWAY MODE

FIG. 1G

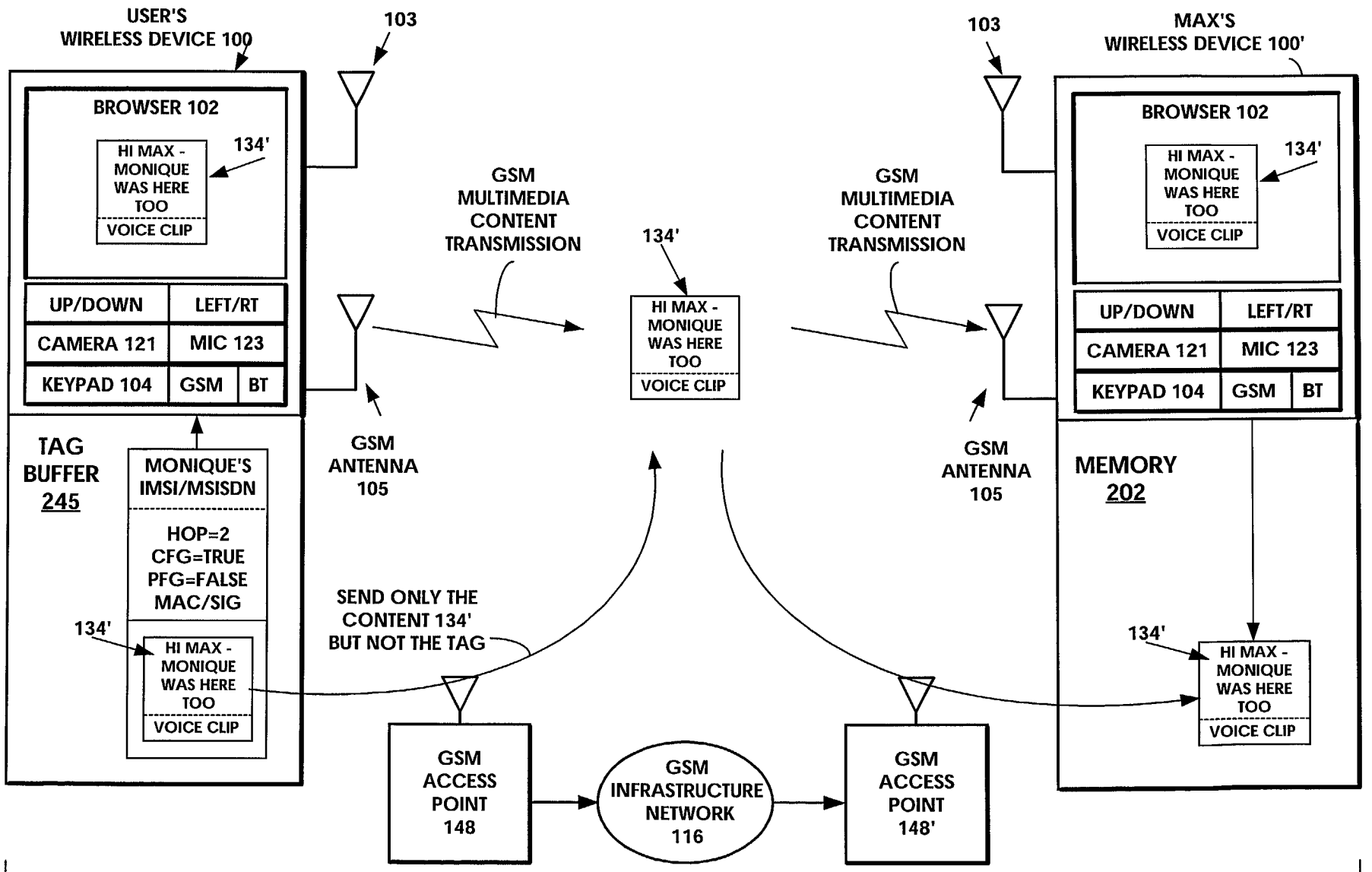

USER'S WIRELESS DEVICE 100
103
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
GSM MULTIMEDIA CONTENT TRANSMISSION
GSM ANTENNA 105
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
SEND ONLY THE CONTENT 134' BUT NOT THE TAG
GSM ACCESS POINT 148
GSM INFRASTRUCTURE NETWORK 116
GSM ACCESS POINT 148'
MAX'S WIRELESS DEVICE 100'
MEMORY 202

FIG. 1H

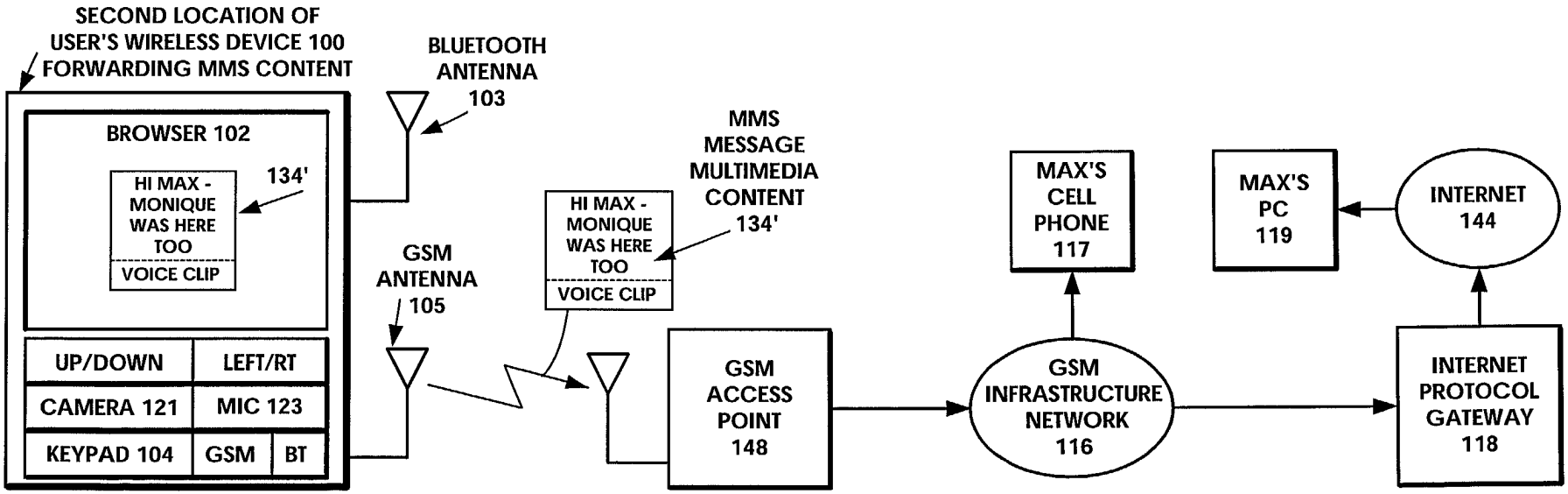

SECOND LOCATION OF USER'S WIRELESS DEVICE 100 FORWARDING MMS CONTENT
BLUETOOTH ANTENNA 103
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
134'
VOICE CLIP
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
GSM ANTENNA 105
MMS MESSAGE MULTIMEDIA CONTENT 134'
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
GSM ACCESS POINT 148
GSM INFRASTRUCTURE NETWORK 116
MAX'S CELL PHONE 117
MAX'S PC 119
INTERNET 144
INTERNET PROTOCOL GATEWAY 118

FIG. 2

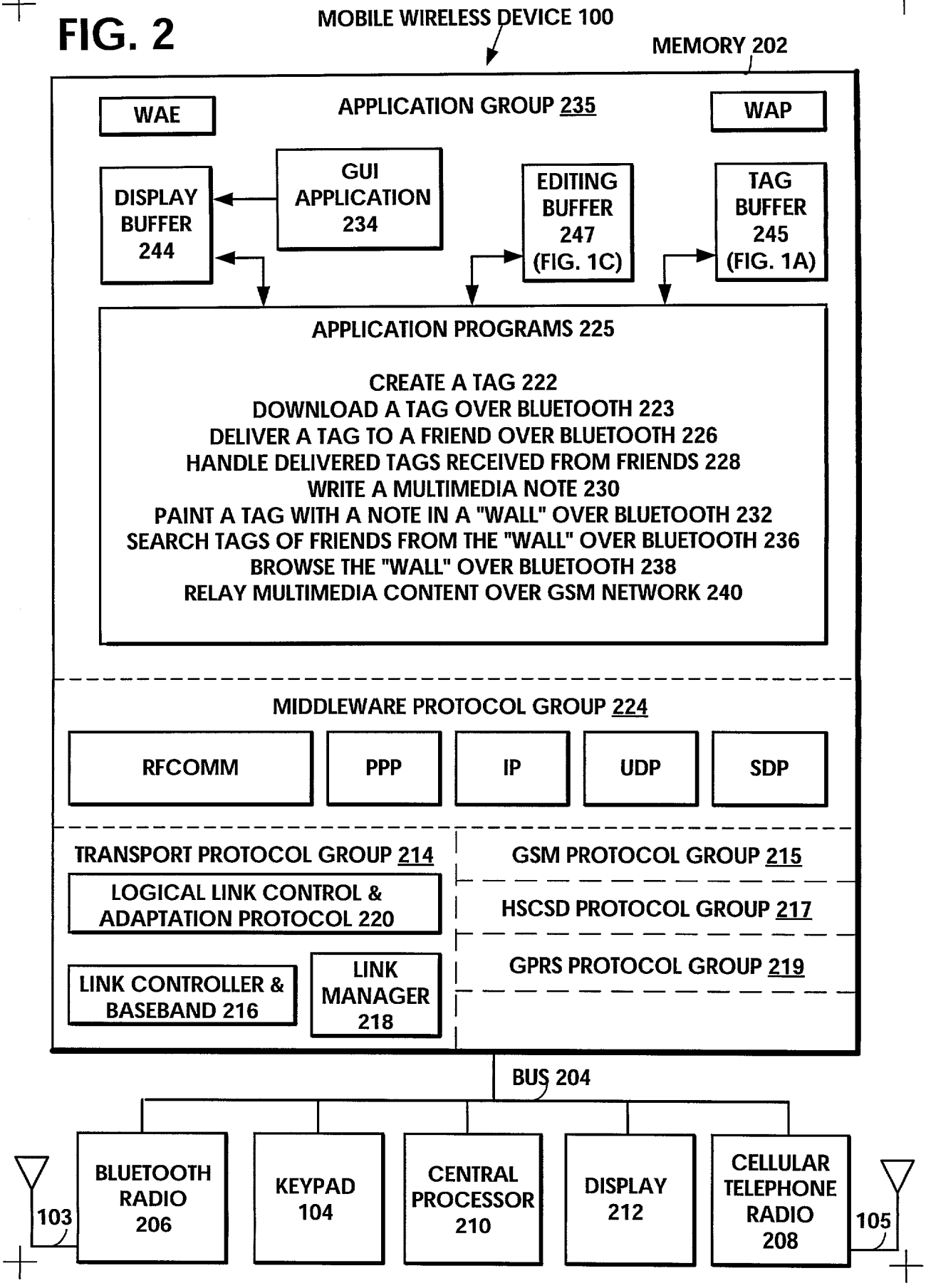

MOBILE WIRELESS DEVICE 100
MEMORY 202
WAE
APPLICATION GROUP 235
WAP
DISPLAY BUFFER 244
GUI APPLICATION 234
EDITING BUFFER 247 (FIG. 1C)
TAG BUFFER 245 (FIG. 1A)
APPLICATION PROGRAMS 225
CREATE A TAG 222
DOWNLOAD A TAG OVER BLUETOOTH 223
DELIVER A TAG TO A FRIEND OVER BLUETOOTH 226
HANDLE DELIVERED TAGS RECEIVED FROM FRIENDS 228
WRITE A MULTIMEDIA NOTE 230
PAINT A TAG WITH A NOTE IN A "WALL" OVER BLUETOOTH 232
SEARCH TAGS OF FRIENDS FROM THE "WALL" OVER BLUETOOTH 236
BROWSE THE "WALL" OVER BLUETOOTH 238
RELAY MULTIMEDIA CONTENT OVER GSM NETWORK 240
MIDDLEWARE PROTOCOL GROUP 224
RFCOMM
PPP
IP
UDP
SDP
TRANSPORT PROTOCOL GROUP 214
LOGICAL LINK CONTROL & ADAPTATION PROTOCOL 220
LINK CONTROLLER & BASEBAND 216
LINK MANAGER 218
GSM PROTOCOL GROUP 215
HSCSD PROTOCOL GROUP 217
GPRS PROTOCOL GROUP 219
BUS 204
BLUETOOTH RADIO 206
KEYPAD 104
CENTRAL PROCESSOR 210
DISPLAY 212
CELLULAR TELEPHONE RADIO 208
103
105

FIG. 2A

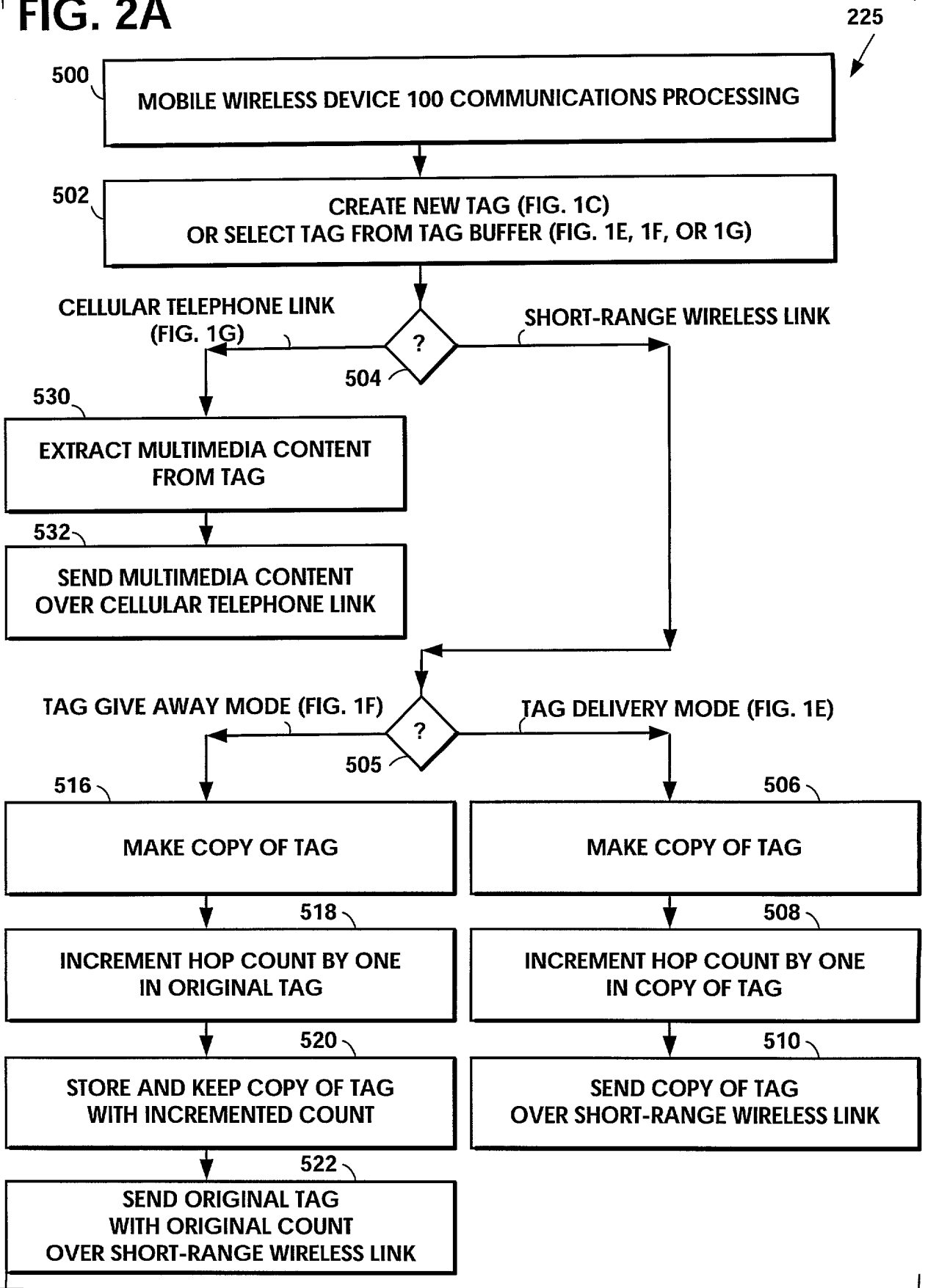

225
500
MOBILE WIRELESS DEVICE 100 COMMUNICATIONS PROCESSING
502
CREATE NEW TAG (FIG. 1C)
OR SELECT TAG FROM TAG BUFFER (FIG. 1E, 1F, OR 1G)
CELLULAR TELEPHONE LINK
(FIG. 1G)
?
504
SHORT-RANGE WIRELESS LINK
530
EXTRACT MULTIMEDIA CONTENT
FROM TAG
532
SEND MULTIMEDIA CONTENT
OVER CELLULAR TELEPHONE LINK
TAG GIVE AWAY MODE (FIG. 1F)
?
505
TAG DELIVERY MODE (FIG. 1E)
516
MAKE COPY OF TAG
506
MAKE COPY OF TAG
518
INCREMENT HOP COUNT BY ONE
IN ORIGINAL TAG
508
INCREMENT HOP COUNT BY ONE
IN COPY OF TAG
520
STORE AND KEEP COPY OF TAG
WITH INCREMENTED COUNT
510
SEND COPY OF TAG
OVER SHORT-RANGE WIRELESS LINK
522
SEND ORIGINAL TAG
WITH ORIGINAL COUNT
OVER SHORT-RANGE WIRELESS LINK

FIG. 3

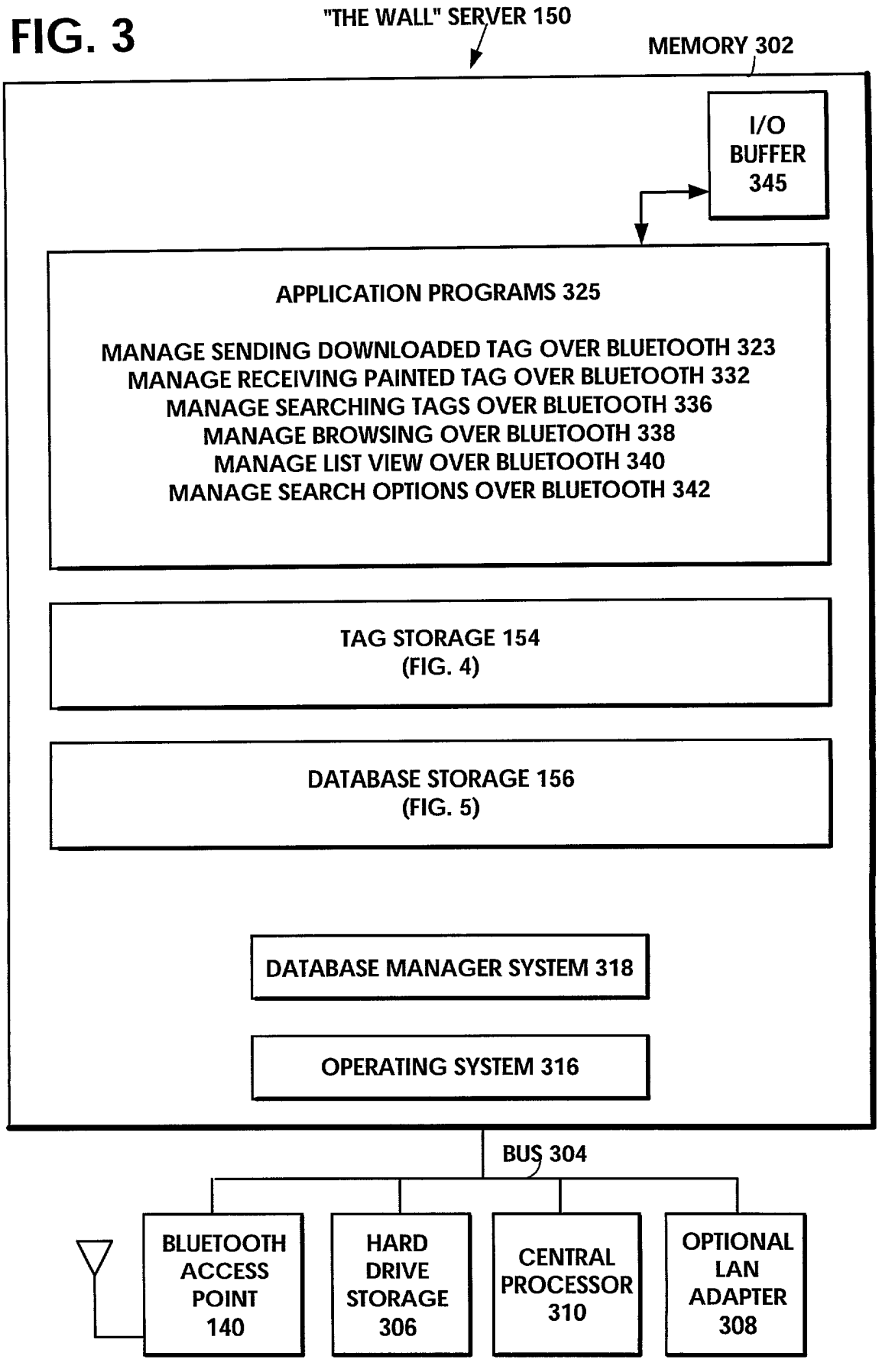

"THE WALL" SERVER 150
MEMORY 302
I/O BUFFER 345
APPLICATION PROGRAMS 325
MANAGE SENDING DOWNLOADED TAG OVER BLUETOOTH 323
MANAGE RECEIVING PAINTED TAG OVER BLUETOOTH 332
MANAGE SEARCHING TAGS OVER BLUETOOTH 336
MANAGE BROWSING OVER BLUETOOTH 338
MANAGE LIST VIEW OVER BLUETOOTH 340
MANAGE SEARCH OPTIONS OVER BLUETOOTH 342
TAG STORAGE 154
(FIG. 4)
DATABASE STORAGE 156
(FIG. 5)
DATABASE MANAGER SYSTEM 318
OPERATING SYSTEM 316
BUS 304
BLUETOOTH ACCESS POINT 140
HARD DRIVE STORAGE 306
CENTRAL PROCESSOR 310
OPTIONAL LAN ADAPTER 308

FIG. 3A

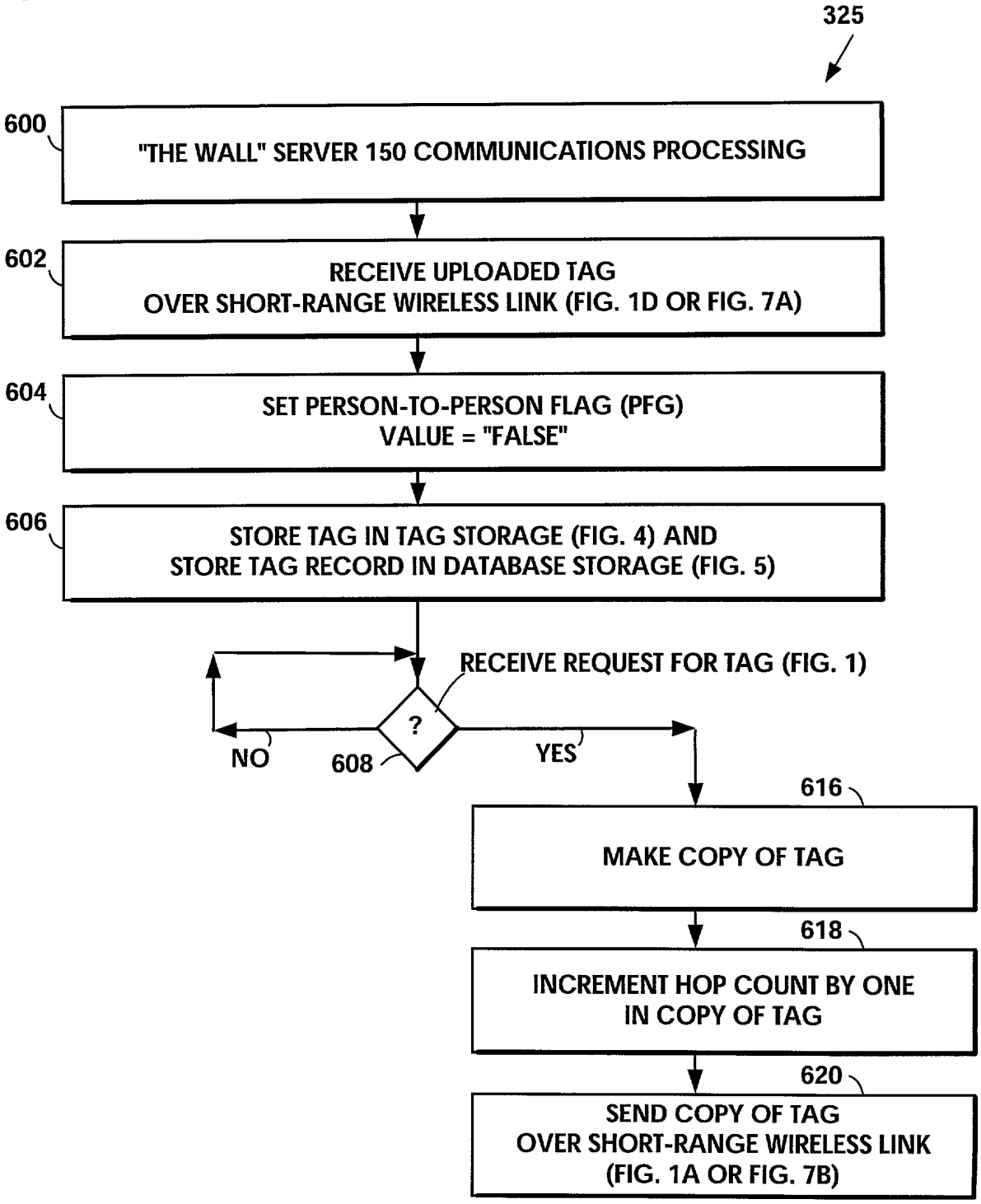

325
600
"THE WALL" SERVER 150 COMMUNICATIONS PROCESSING
602
RECEIVE UPLOADED TAG
OVER SHORT-RANGE WIRELESS LINK (FIG. 1D OR FIG. 7A)
604
SET PERSON-TO-PERSON FLAG (PFG)
VALUE = "FALSE"
606
STORE TAG IN TAG STORAGE (FIG. 4) AND
STORE TAG RECORD IN DATABASE STORAGE (FIG. 5)
RECEIVE REQUEST FOR TAG (FIG. 1)
?
608
NO
YES
616
MAKE COPY OF TAG
618
INCREMENT HOP COUNT BY ONE
IN COPY OF TAG
620
SEND COPY OF TAG
OVER SHORT-RANGE WIRELESS LINK
(FIG. 1A OR FIG. 7B)

FIG. 4

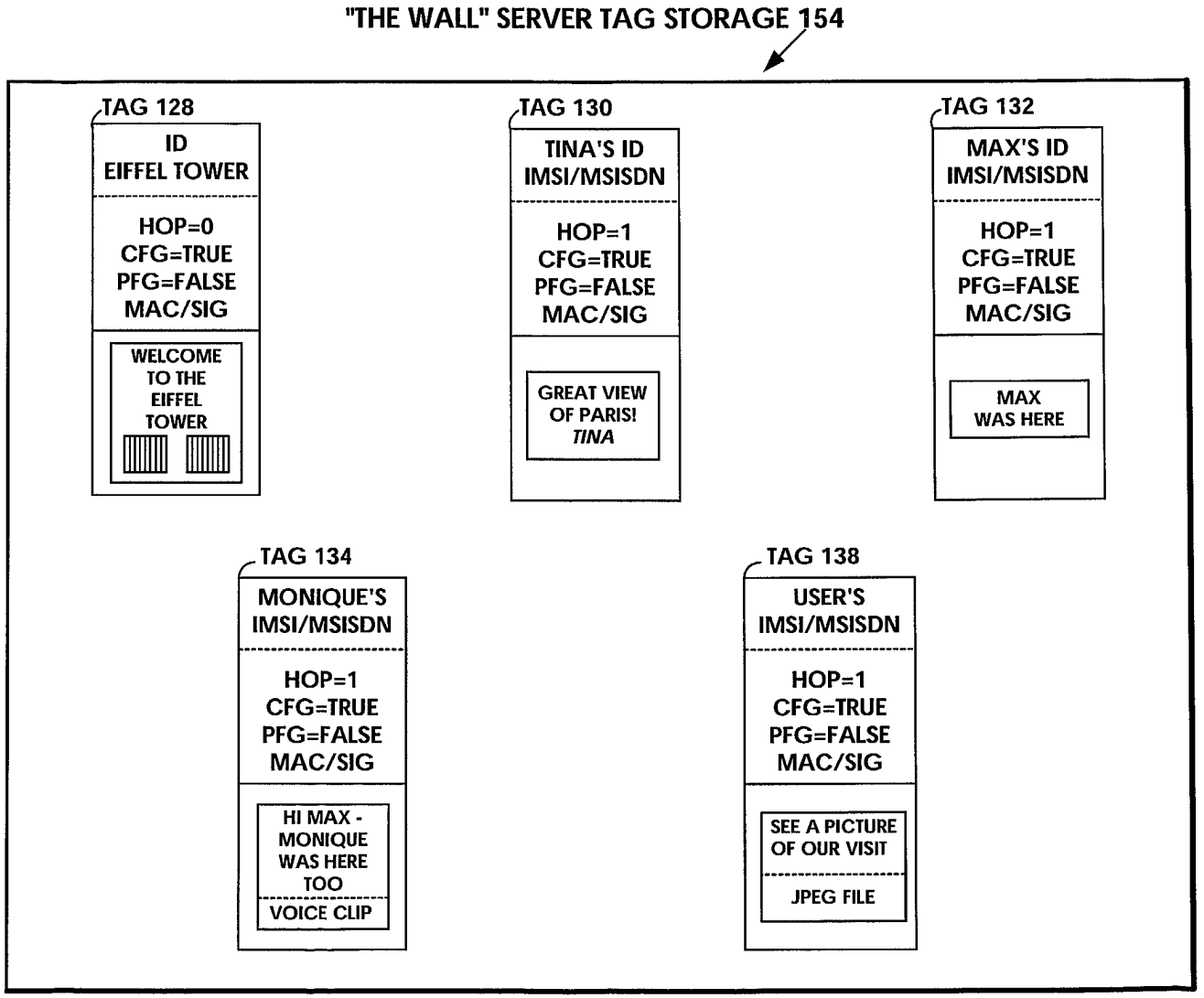

"THE WALL" SERVER TAG STORAGE 154
TAG 128
ID
EIFFEL TOWER
HOP=0
CFG=TRUE
PFG=FALSE
MAC/SIG
WELCOME TO THE EIFFEL TOWER
TAG 130
TINA'S ID
IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
GREAT VIEW OF PARIS!
TINA
TAG 132
MAX'S ID
IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
MAX WAS HERE
TAG 134
MONIQUE'S
IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 138
USER'S
IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
SEE A PICTURE OF OUR VISIT
JPEG FILE

FIG. 5

"THE WALL" DATABASE STORAGE 156

DATABASE 158

MAC & DIGITAL SIGINATURE

TAG INDEX	AUTHOR NAME	PERSONAL ID IMSI/MSISDN	HOP COUNT	CFG FLAG	PFG FLAG	MAC SIG.	TIME STAMP	"THE WALL" COORDINATES X,Y	COMMENT CHAIN LINK
TAG 138	USER 100	+368102375	HOP=1	CFG =TRUE	PFG= FALSE	MAC SIG.	26:01:02	X138,Y138	
TAG 134	MONIQUE	+358402370	HOP=1	CFG =TRUE	PFG= FALSE	MAC SIG.	18:12:01	X134,Y134	BAK_LINK TO TAG 132
TAG 132	MAX	+358432373	HOP=1	CFG =TRUE	PFG= FALSE	MAC SIG.	04:12:01	X132,Y132	FOR_LINK TO TAG 134
TAG 130	TINA	+358332372	HOP=1	CFG =TRUE	PFG= FALSE	MAC SIG.	03:12:01	X130,Y130	
TAG 128	EIFFEL TOWER	---	HOP=1	CFG =TRUE	PFG= FALSE	MAC SIG.	01:12:01	X128,Y128	

20020720 00262001

FIG. 6A

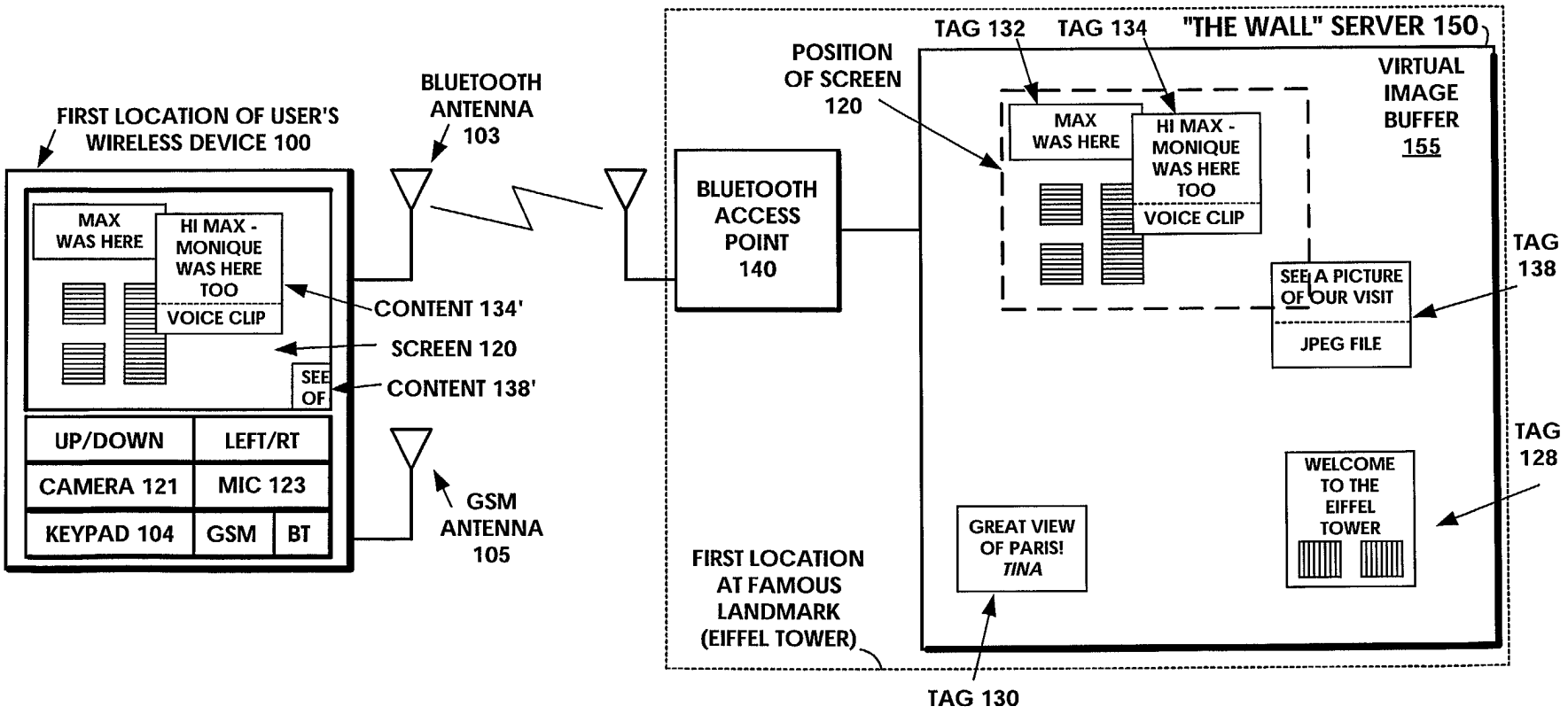


FIG. 6B

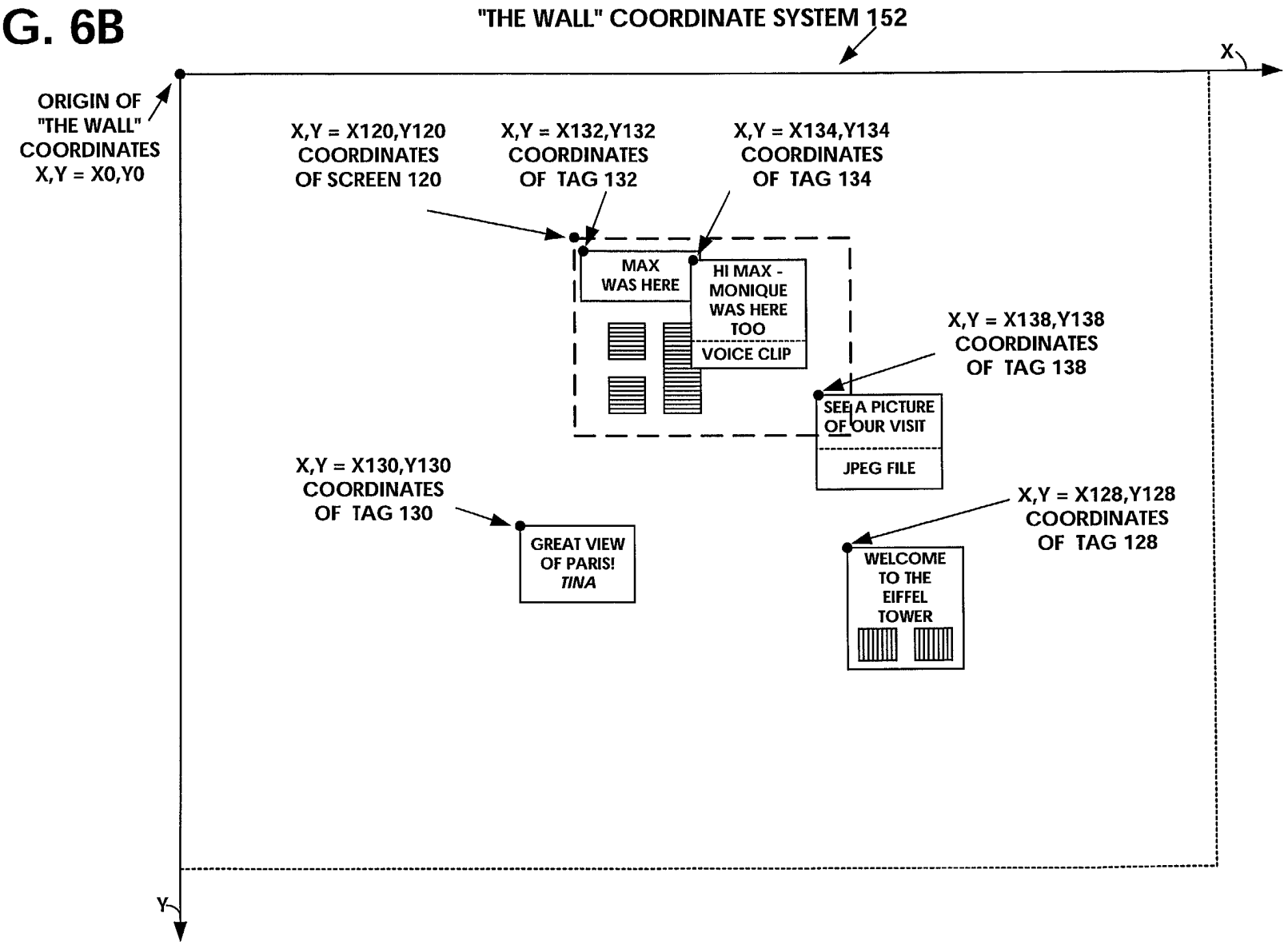

"THE WALL" COORDINATE SYSTEM 152
X
Y
ORIGIN OF "THE WALL" COORDINATES X,Y = X0,Y0
X,Y = X120,Y120 COORDINATES OF SCREEN 120
X,Y = X132,Y132 COORDINATES OF TAG 132
X,Y = X134,Y134 COORDINATES OF TAG 134
MAX WAS HERE
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
X,Y = X138,Y138 COORDINATES OF TAG 138
SEE A PICTURE OF OUR VISIT
JPEG FILE
X,Y = X130,Y130 COORDINATES OF TAG 130
GREAT VIEW OF PARIS! TINA
X,Y = X128,Y128 COORDINATES OF TAG 128
WELCOME TO THE EIFFEL TOWER

FIG. 7A

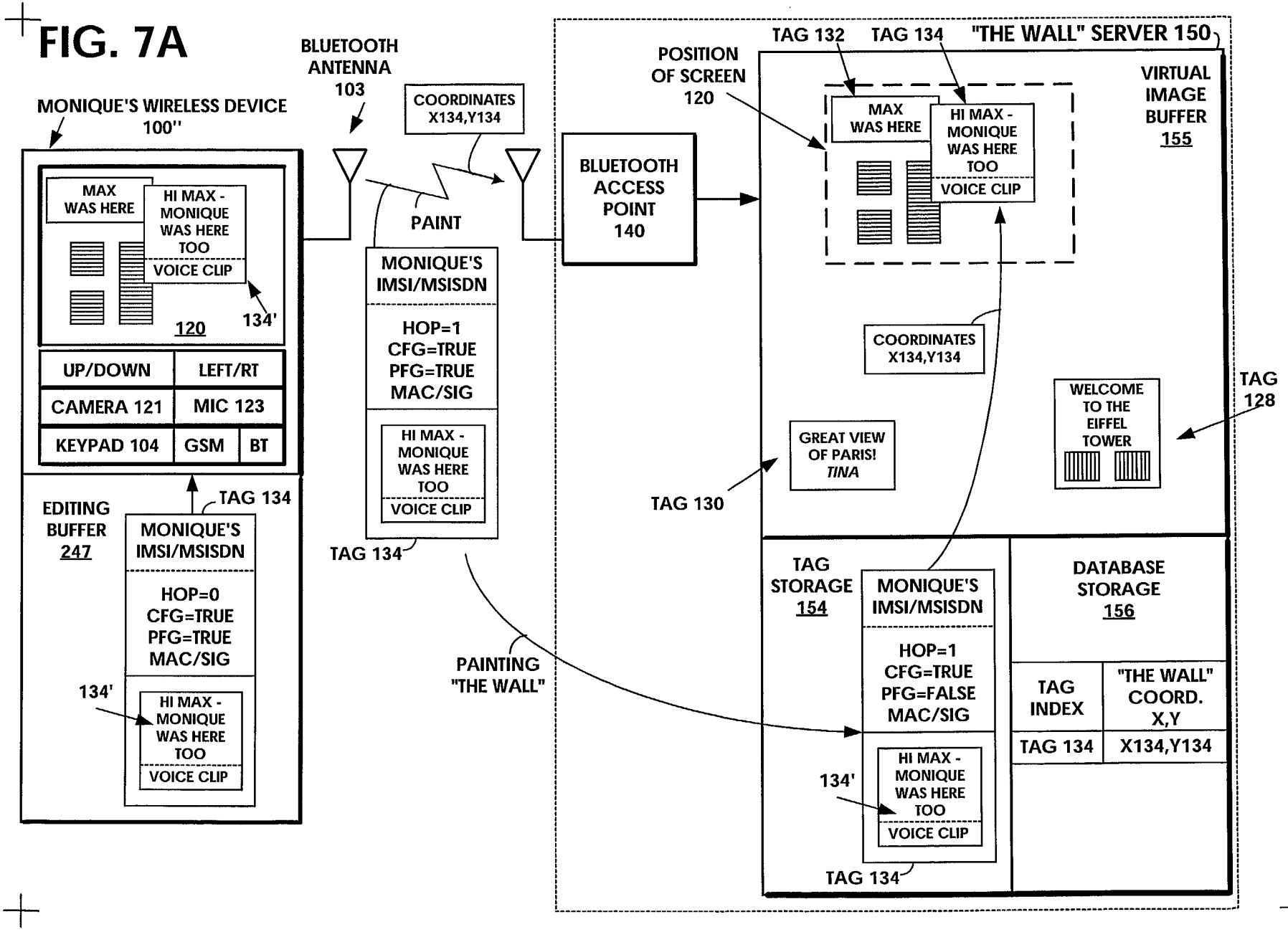

MONIQUE'S WIRELESS DEVICE 100''
BLUETOOTH ANTENNA 103
COORDINATES X134,Y134
PAINT
BLUETOOTH ACCESS POINT 140
"THE WALL" SERVER 150
TAG 132
TAG 134
POSITION OF SCREEN 120
VIRTUAL IMAGE BUFFER 155
MAX WAS HERE
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
120
134'
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
MONIQUE'S IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=TRUE
MAC/SIG
COORDINATES X134,Y134
WELCOME TO THE EIFFEL TOWER
TAG 128
GREAT VIEW OF PARIS! TINA
TAG 130
EDITING BUFFER 247
HOP=0
CFG=TRUE
PFG=TRUE
MAC/SIG
TAG STORAGE 154
DATABASE STORAGE 156
PAINTING "THE WALL"
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
TAG INDEX
"THE WALL" COORD. X,Y
TAG 134
X134,Y134

FIG. 7B

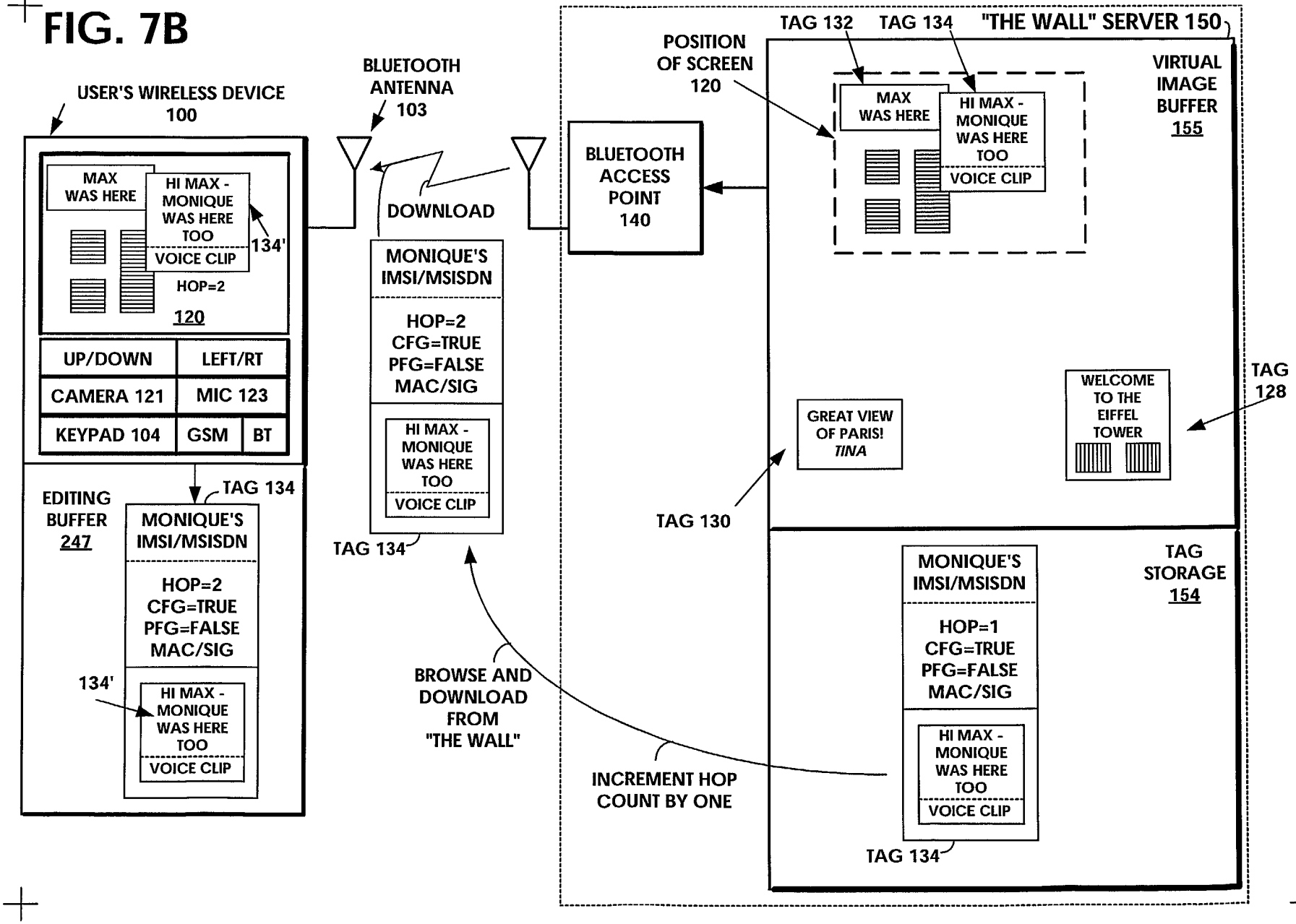

USER'S WIRELESS DEVICE 100
MAX WAS HERE
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
HOP=2
120
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
EDITING BUFFER 247
TAG 134
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
134'
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
BLUETOOTH ANTENNA 103
DOWNLOAD
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
BROWSE AND DOWNLOAD FROM "THE WALL"
BLUETOOTH ACCESS POINT 140
POSITION OF SCREEN 120
TAG 132
TAG 134
"THE WALL" SERVER 150
VIRTUAL IMAGE BUFFER 155
MAX WAS HERE
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
GREAT VIEW OF PARIS! TINA
TAG 130
WELCOME TO THE EIFFEL TOWER
TAG 128
TAG STORAGE 154
MONIQUE'S IMSI/MSISDN
HOP=1
CFG=TRUE
PFG=FALSE
MAC/SIG
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
INCREMENT HOP COUNT BY ONE

FIG. 8

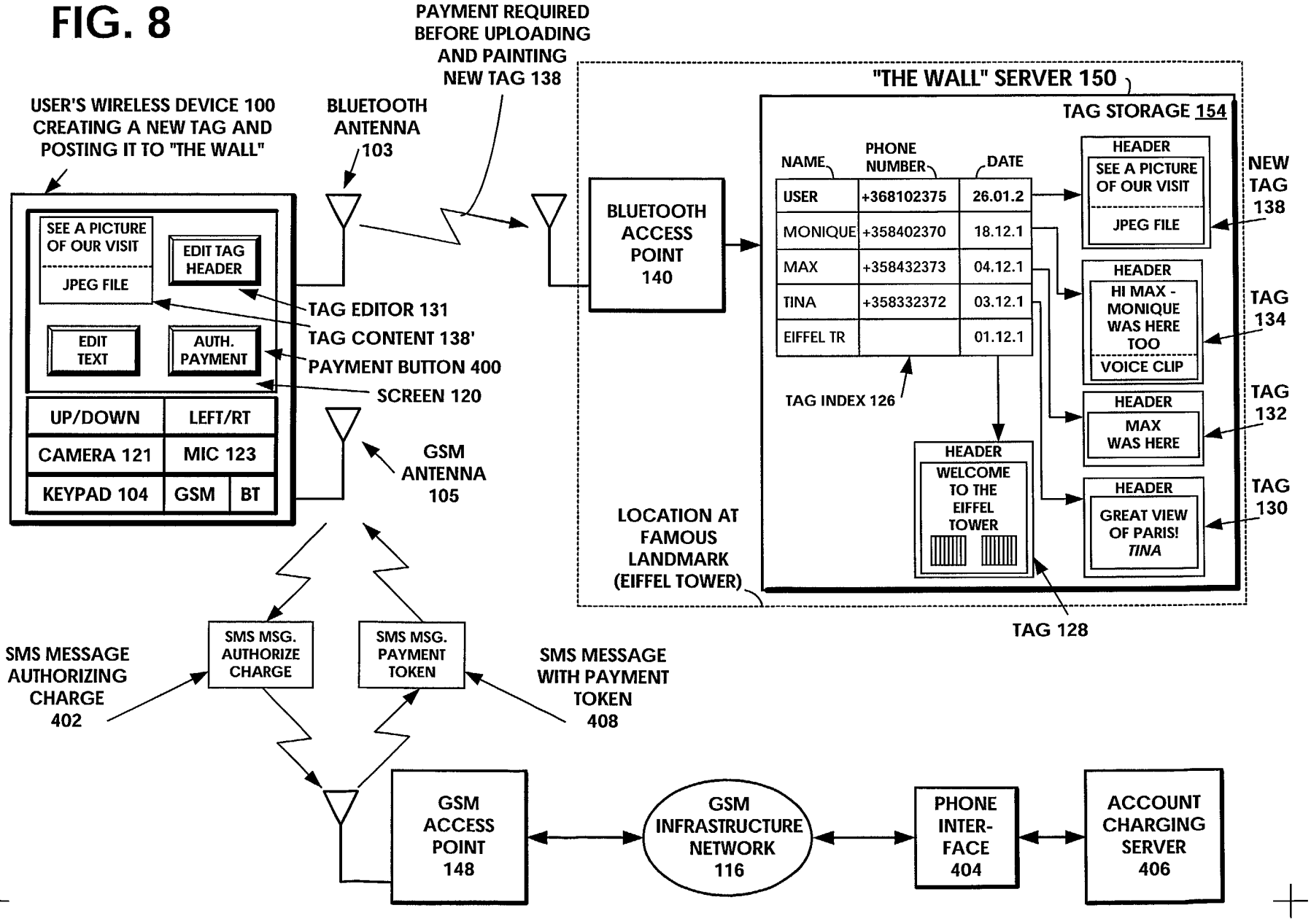

PAYMENT REQUIRED BEFORE UPLOADING AND PAINTING NEW TAG 138
"THE WALL" SERVER 150
TAG STORAGE 154
USER'S WIRELESS DEVICE 100 CREATING A NEW TAG AND POSTING IT TO "THE WALL"
BLUETOOTH ANTENNA 103
BLUETOOTH ACCESS POINT 140
NAME
PHONE NUMBER
DATE
USER +368102375 26.01.2
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
HEADER
SEE A PICTURE OF OUR VISIT
JPEG FILE
NEW TAG 138
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
TAG INDEX 126
SEE A PICTURE OF OUR VISIT
JPEG FILE
EDIT TAG HEADER
EDIT TEXT
AUTH. PAYMENT
TAG EDITOR 131
TAG CONTENT 138'
PAYMENT BUTTON 400
SCREEN 120
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
GSM ANTENNA 105
LOCATION AT FAMOUS LANDMARK (EIFFEL TOWER)
TAG 128
SMS MESSAGE AUTHORIZING CHARGE 402
SMS MSG. AUTHORIZE CHARGE
SMS MSG. PAYMENT TOKEN
SMS MESSAGE WITH PAYMENT TOKEN 408
GSM ACCESS POINT 148
GSM INFRASTRUCTURE NETWORK 116
PHONE INTER-FACE 404
ACCOUNT CHARGING SERVER 406

FIG. 9

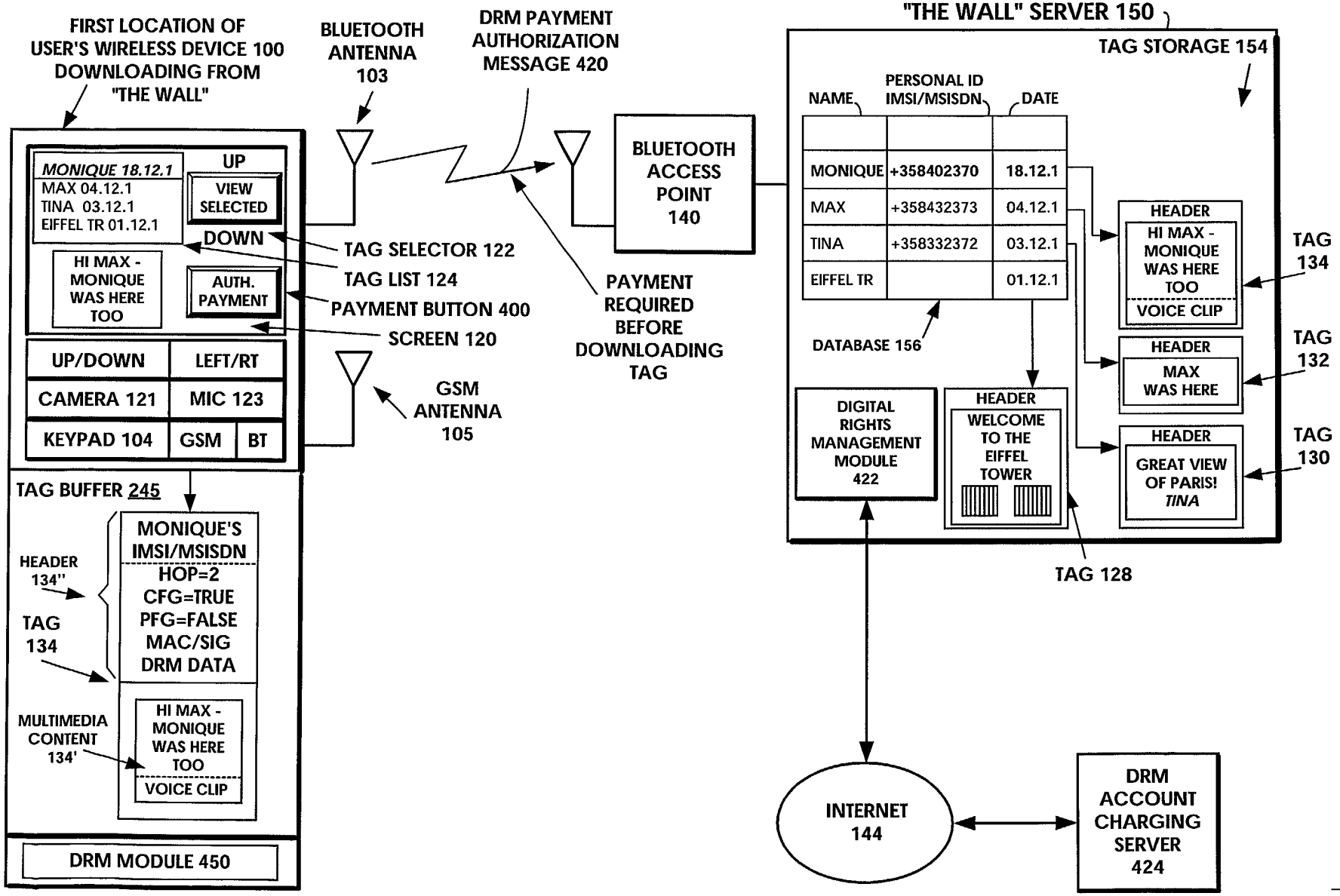
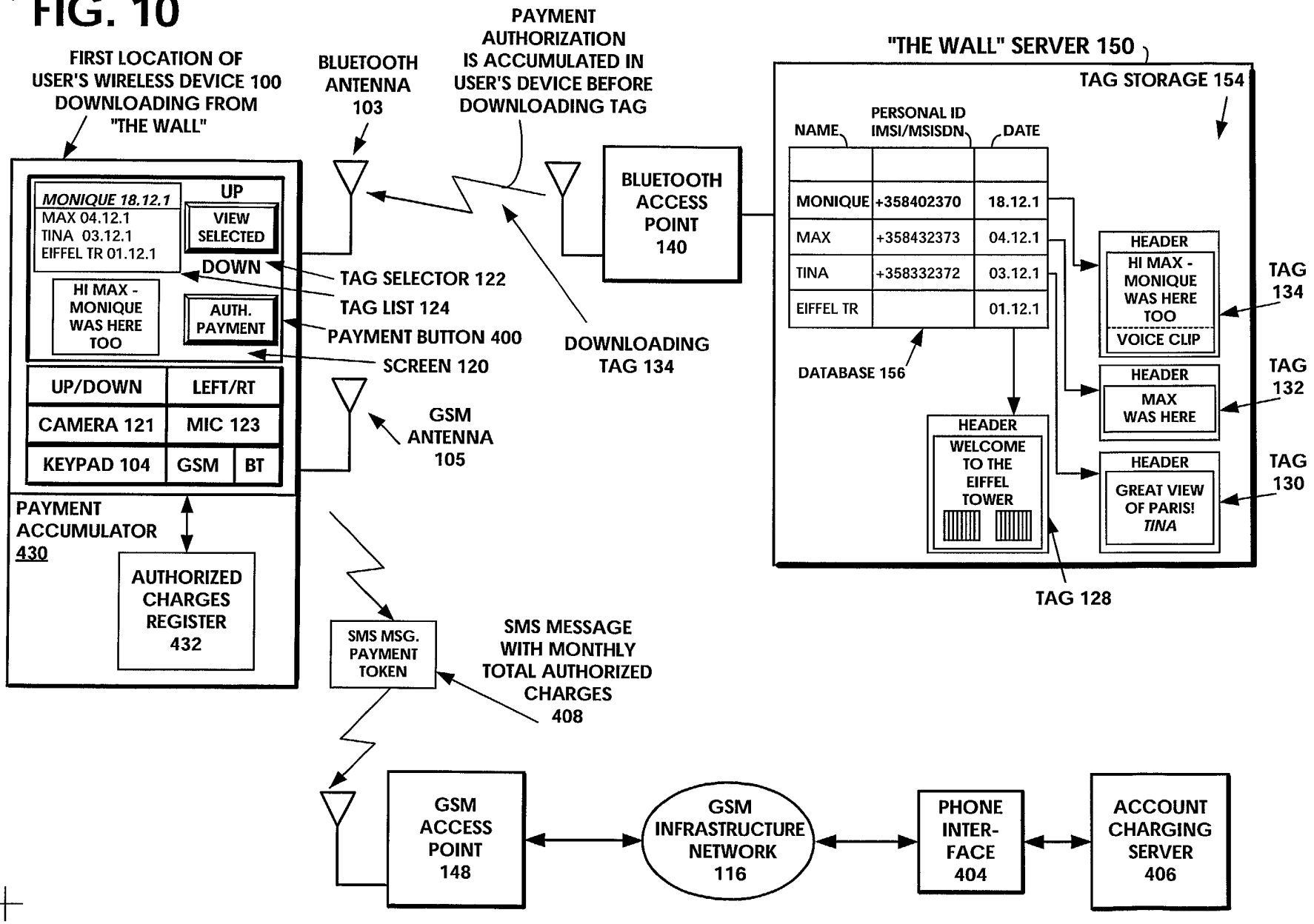

FIRST LOCATION OF USER'S WIRELESS DEVICE 100 DOWNLOADING FROM "THE WALL"
BLUETOOTH ANTENNA 103
DRM PAYMENT AUTHORIZATION MESSAGE 420
"THE WALL" SERVER 150
TAG STORAGE 154
BLUETOOTH ACCESS POINT 140
NAME
PERSONAL ID IMSI/MSISDN
DATE
MONIQUE 18.12.1
MAX 04.12.1
TINA 03.12.1
EIFFEL TR 01.12.1
UP
VIEW SELECTED
DOWN
HI MAX - MONIQUE WAS HERE TOO
AUTH. PAYMENT
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
TAG SELECTOR 122
TAG LIST 124
PAYMENT BUTTON 400
SCREEN 120
GSM ANTENNA 105
PAYMENT REQUIRED BEFORE DOWNLOADING TAG
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
DATABASE 156
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
HEADER
WELCOME TO THE EIFFEL TOWER
DIGITAL RIGHTS MANAGEMENT MODULE 422
TAG 128
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=FALSE
MAC/SIG
DRM DATA
HEADER 134''
TAG 134
MULTIMEDIA CONTENT 134'
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
DRM MODULE 450
INTERNET 144
DRM ACCOUNT CHARGING SERVER 424

FIG. 10


FIRST LOCATION OF USER'S WIRELESS DEVICE 100 DOWNLOADING FROM "THE WALL"
BLUETOOTH ANTENNA 103
PAYMENT AUTHORIZATION IS ACCUMULATED IN USER'S DEVICE BEFORE DOWNLOADING TAG
"THE WALL" SERVER 150
TAG STORAGE 154
NAME
PERSONAL ID IMSI/MSISDN
DATE
MONIQUE 18.12.1
MAX 04.12.1
TINA 03.12.1
EIFFEL TR 01.12.1
UP
VIEW SELECTED
DOWN
HI MAX - MONIQUE WAS HERE TOO
AUTH. PAYMENT
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
PAYMENT ACCUMULATOR 430
AUTHORIZED CHARGES REGISTER 432
BLUETOOTH ACCESS POINT 140
TAG SELECTOR 122
TAG LIST 124
PAYMENT BUTTON 400
SCREEN 120
DOWNLOADING TAG 134
GSM ANTENNA 105
MONIQUE +358402370 18.12.1
MAX +358432373 04.12.1
TINA +358332372 03.12.1
EIFFEL TR 01.12.1
DATABASE 156
HEADER
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
TAG 134
HEADER
MAX WAS HERE
TAG 132
HEADER
WELCOME TO THE EIFFEL TOWER
HEADER
GREAT VIEW OF PARIS! TINA
TAG 130
TAG 128
SMS MSG. PAYMENT TOKEN
SMS MESSAGE WITH MONTHLY TOTAL AUTHORIZED CHARGES 408
GSM ACCESS POINT 148
GSM INFRASTRUCTURE NETWORK 116
PHONE INTER-FACE 404
ACCOUNT CHARGING SERVER 406

20EP20 002E2007

FIG. 11

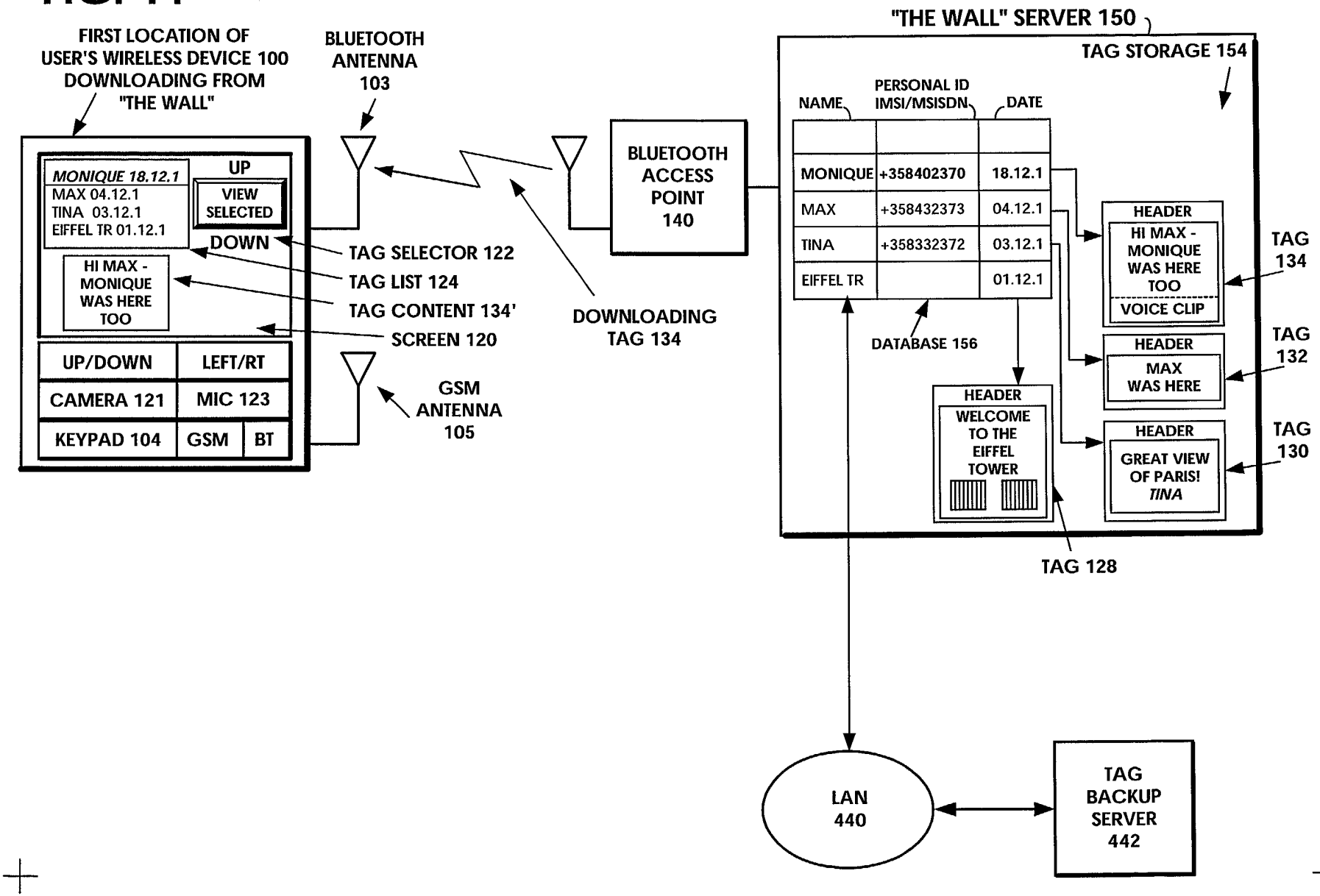
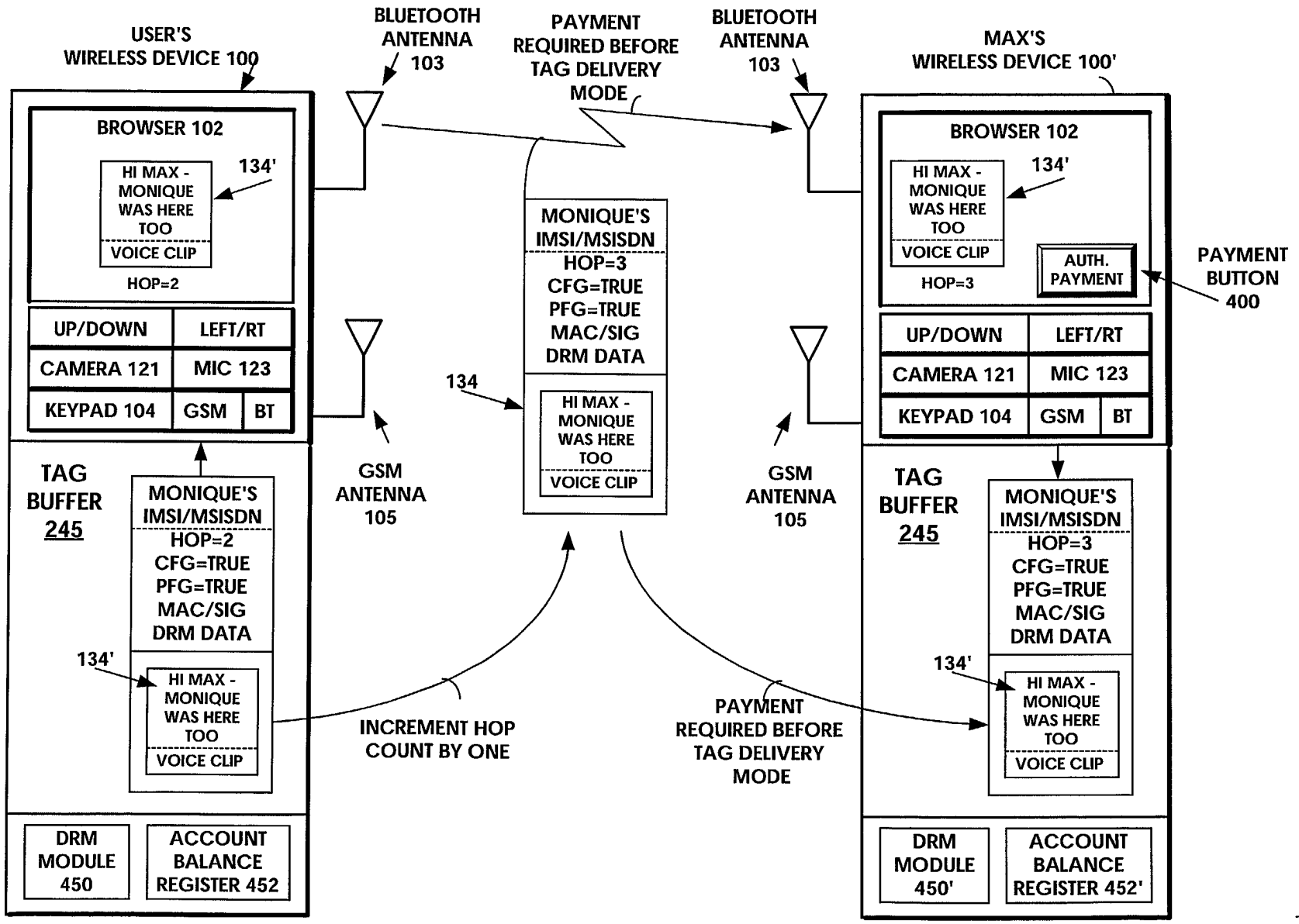


FIG. 12


USER'S WIRELESS DEVICE 100
BLUETOOTH ANTENNA 103
PAYMENT REQUIRED BEFORE TAG DELIVERY MODE
BLUETOOTH ANTENNA 103
MAX'S WIRELESS DEVICE 100'
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
HOP=2
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HOP=2
CFG=TRUE
PFG=TRUE
MAC/SIG
DRM DATA
DRM MODULE 450
ACCOUNT BALANCE REGISTER 452
GSM ANTENNA 105
MONIQUE'S IMSI/MSISDN
HOP=3
CFG=TRUE
PFG=TRUE
MAC/SIG
DRM DATA
134
INCREMENT HOP COUNT BY ONE
GSM ANTENNA 105
BROWSER 102
HI MAX - MONIQUE WAS HERE TOO
VOICE CLIP
134'
HOP=3
AUTH. PAYMENT
PAYMENT BUTTON 400
UP/DOWN
LEFT/RT
CAMERA 121
MIC 123
KEYPAD 104
GSM
BT
TAG BUFFER 245
MONIQUE'S IMSI/MSISDN
HOP=3
CFG=TRUE
PFG=TRUE
MAC/SIG
DRM DATA
DRM MODULE 450'
ACCOUNT BALANCE REGISTER 452'
PAYMENT REQUIRED BEFORE TAG DELIVERY MODE